Filtered Arrays

XD... Type



FEATURES

- To be used beneath a connector
- Provide an EMI filtered signal line between electronic modules
- Effective insertion loss from 1MHz up to ~ 1GHz
- Surface mount compatible

HOW TO ORDER

XD	<u>06</u>	<u>Z</u>	<u>F</u>	<u>0153</u>	<u>K</u>	
AVX Style	Size	Class	Voltage	Capacitance	Tolerance	Packaging
XD	03	C = NP0	E = 100	EIA code	J = 5%	= Bulk
	06	Z = X7R	F = 200	on 3 or 4	K = 10%	xx = Tape
	07		J = 500	digits	M = 20%	& Reel

STYLE & DIMENSIONS

millimeters (inches)

	P ← L →	TYPES	L	Р	D	d	bm maxi	Thickness maxi
D		XD07 (4 capacitors)	7.00 ± 0.15 (0.275 \pm 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.00 ± 0.10 (0.039 ± 0.0039)	0.3	2mm
		XD06 (4 capacitors)	6.00 ± 0.15 (0.236± 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.00 ± 0.10 (0.039 ± 0.0039)	0.3	2mm
	→bm tm	XD03 (2 capacitors)	6.00 x 3.00 ± 0.15 (0.236 x 0.118 ± 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.0 ± 0.10 (0.039 ± 0.0039)	0.3	1.5mm

Terminations: Silver - Palladium - Platinum, on 4 or only 2 sides of the array

CAPACITANCE vs VOLTAGE TABLE

Cap. Range	X	rR	NP0		
(each cap.)	(each cap.) 200VDC		200VDC	500VDC	
XD07	33nF → 120nF	4.7nF → 18nF	470pF → 1500pF	220pF → 620pF	
XD06	15nF → 68nF	2.2nF → 10nF	220pF → 750pF	120pF → 330pF	
XD03	8.2nF → 39nF	1nF → 4.7nF	180pF → 390pF	82pF → 180pF	

ELECTRICAL CHARACTERISTICS

Dielectric Class	X7R	55 +125°C)	NP0		
Temperature Coefficient	ΔC/C ≤ ± 15% (-		0 ± 30ppm/°C		
Climatic Category	55 / 125 / 56		55 / 125 / 56		
Rated Voltage (U _R) Test Voltage (U _e)	200 VDC	500VDC	200VDC	500VDC	
	2 x U _R	1.5 x U _R	2 x U _R	1.5 x U _R	
Tangent of Loss Angle - DF Insulation Resistance	tg δ ≤ 250(10 ⁻⁴) C ≤ 10nF = Ri ≥ 100 GΩ C > 10nF = Ri \times C ≥ 1000s		tg $\delta \le 15(10^{-4})$ Ri $\ge 100 \text{ G}\Omega$		

XXVX